

Washington Latin -- Calculus

Take Some Opportunity -- Calculators

_____ don't need no stinkin' calculator!!!!

Unless stated otherwise, give all values rounded to two decimal places.

1. What are the following rounded to three decimal places: (2 points each)

a. $\sqrt{572} =$

b. $37 \times p^2 =$

c. $\sqrt[4]{312} =$

d. $p^p =$

e. $\frac{\sin 13^\circ}{\cos 5^\circ} + \frac{\tan 12^\circ}{\cos 43^\circ} =$

f. $\log 742 =$

2. Graph the function $f(x) = \sin x + 2\cos x + 1$.
- a. How many zeroes are there between $x = 2$ and $x = 11$?
Where (at what x - values) are those zeroes? (5 points)
3. Graph the function. $g(x) = x^3 - 5x^2 + 9$
- a. Identify all of the functions zeroes. (3 points)
- b. What minimums and maximums does the function have
between $x = -10$ and $x = 10$? Where are they and what are their values?
(1 point each)
- c. Where do the curves of $f(x)$ (from problem 2) and $g(x)$ (this
problem) intersect? Give both co-ordinates of the points of intersection.
(1 point each)